

Final
Description of Current Conditions Report
Atlantic Fleet Weapons Training Facility
Vieques Island, Puerto Rico



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APPENDIX A

Well Construction Details

TABLE 3-1

**SUMMARY OF WELL CONSTRUCTION DETAILS
HYDROGEOLOGICAL INVESTIGATION
VIEQUES ISLAND, PUERTO RICO**

Well Number	Date Installed	Top of Casing Elevation (Feet above MSL)	Boring Depth (Ft. bgs)	Well Depth (Ft. bgs)	PVC Riser (Ft. bgs)	Screen Interval Depth (Ft. bgs)	Depth to Bentonite (Ft. bgs)	Depth to Sandpack (Ft. bgs)
NW-1	8/14/99	114.096	135	134	124	124 - 134	107.0	109.2
NW-3	8/6/99	354.382	197	197	187	187 - 197	177.0	182.0
NW-4	8/17/99	35.99	80	80	70	70 - 80	55.0	57.0
NW-5	8/10/99	107.808	118	118	108	108 - 118	103.6	106.0
NW-6	8/12/99	90.726	144	144	124	124 - 144	105.2	111.2
NW-7	8/17/99	4.103	81	81	71	71 - 81	60.0	64.0
NW-8	8/3/99	4.154	27	15	5	5 - 15	2.0	4.0
P-1	8/25/99	145.084	186	186	176	176 - 186	66.0	78.7
P-2	8/18/99	116.255	105	102	92	92 - 102	50.0	84.0
P-3	8/19/99	232.791	165	165	155	155 - 165	62.0	66.0
P-5	8/19/99	296.819	144	144	134	134 - 144	54.0	60.0
P-6	8/19/99	192.575	180.5	180.5	170.5	170.5 - 180.5	115	120.0
P-7	8/14/99	68.029	94	94	84	84 - 94	77.0	79.0
P-8	8/4/99	21.335	32	32	12	12 - 32	6.0	8.0
P-9	8/18/99	21.618	86	86	70	70 - 80	63.0	55.0
RCRA-1	8/18/99	101.241	65	64	54	54 - 64	46.0	49.5
RCRA-2	8/8/99	257.46	64	64	54	54 - 64	44.5	49.5
RCRA-3	8/14/99	153.937	69	69	59	59 - 69	48.0	53.8
RCRA-4	8/11/99	36.141	49.5	49.5	39.5	39.5 - 49.5	30.0	37.0

Notes:

* Data estimated from accepted well construction.

MSL = Mean Sea Level

bgs = below ground surface

TABLE 3-2

**MONITORING WELL DEVELOPMENT SUMMARY
HYDROGEOLOGIC INVESTIGATION
VIEQUES ISLAND, PUERTO RICO**

Well	Development Method	Development Completion Date	Approximate Gallons Developed	Number of Well Volumes Developed
RCRA-1	Submersible Pump	8/16/99	110	38.5
RCRA-2	Submersible Pump	8/16/99	55	13
RCRA-3	Submersible Pump	8/15/99	162	63.2
RCRA-4	Submersible Pump	8/15/99	145	56.3
NW-4	Submersible Pump	8/19/99	30	4
NW-7	Submersible Pump	8/19/99	60	4.8
NW-8	Submersible Pump	8/18/99	42	3.5
NW-1	Pump/ Bailer	8/17/99	4	0.67
NW-5	Pump/ Bailer	8/16/99	10	0.75
NW-6	Pump/ Bailer	8/17/99	25	1.68
NW-3	Bailer	8/19/99	14	1

Note: Wells NW-1, NW-5, and NW-6 pumped dry. Well NW-3 had a restriction and could not be pumped.

TABLE 3-3

**GROUNDWATER ELEVATION MEASUREMENTS
HYDROGEOLOGIC INVESTIGATION
VIEQUES ISLAND, PUERTO RICO**

Point Id	DTW 8/25	DTW 8/26	ELEV 8/25	ELEV 8/26	Elevation (Feet)
NW-1	101.210	101.190	12.886	12.906	114.096
NW-3	118.470	118.210	235.912	236.172	354.382
NW-4	37.280	37.220	-1.290	-1.230	35.990
NW-5	36.030	35.970	71.778	71.838	107.808
NW-6	52.700	52.560	38.026	38.166	90.726
NW-7	5.380	5.470	-1.277	-1.367	4.103
NW-8	4.930	5.030	-0.776	-0.876	4.154
P-1	132.000	131.130	13.084	13.954	145.084
P-2	61.870	61.890	54.385	54.365	116.255
P-3	82.390	82.020	150.401	150.771	232.791
P-5	80.150	79.910	216.669	216.909	296.819
P-6	102.910	93.030	89.665	99.545	192.575
P-7	53.110	52.980	14.919	15.049	68.029
P-8	24.870	24.810	-3.535	-3.475	21.335
P-9	24.790	24.760	-3.172	-3.142	21.618
RCRA-1	49.260	49.260	51.981	51.981	101.241
RCRA-2	40.030	40.030	217.439	217.439	257.469
RCRA-3	55.410	55.420	98.527	98.517	153.937
RCRA-4	37.270	37.200	-1.129	-1.059	36.141
G224-1					279.783
G224-2					326.102
G224-3					347.453

TABLE 3-4
WELL SURVEY DATA
HYDROGEOLOGICAL INVESTIGATION,
VIEQUES PUERTO RICO

Point Id	Latitude (NAD 83)	Longitude (NAD 83)	Easting (Nad 27 Feet)	Northing (Nad 27 Feet)	Elevation (Feet)
NW-1	18° 09' 14.41641" N	65° 25' 00.38766" W	852761.949	118136.057	114.096
NW-3	18° 07' 54.85133" N	65° 25' 30.15492" W	849935.643	110094.787	354.382
NW-4	18° 06' 54.24112" N	65° 26' 15.45805" W	845599.755	103957.401	35.990
NW-5	18° 07' 22.44578" N	65° 26' 07.22030" W	846378.807	106806.612	107.808
NW-6	18° 07' 14.63050" N	65° 26' 15.54214" W	845580.479	106013.953	90.726
NW-7	18° 06' 29.85009" N	65° 26' 15.56954" W	845602.359	101497.118	4.103
NW-8	18° 06' 29.89526" N	65° 26' 15.64556" W	845595.002	101501.635	4.154
P-1	18° 08' 58.23604" N	65° 24' 17.83689" W	856874.215	116526.879	145.084
P-2	18° 08' 52.39909" N	65° 24' 41.73599" W	854572.873	115925.246	116.255
P-3	18° 08' 19.27054" N	65° 24' 56.24981" W	853191.817	112575.918	232.791
P-5	18° 07' 39.65922" N	65° 25' 28.64940" W	850089.265	108563.218	296.819
P-6	18° 07' 32.73216" N	65° 25' 32.03029" W	849767.040	107862.720	192.575
P-7	18° 07' 15.39599" N	65° 25' 52.74394" W	847778.879	106103.142	68.029
P-8	18° 06' 57.61779" N	65° 25' 43.06912" W	848721.810	104315.033	21.335
P-9	18° 06' 57.72842" N	65° 25' 43.08706" W	848720.019	104326.182	21.618
RCRA-1	18° 08' 59.75460" N	65° 24' 51.07721" W	853667.958	116662.157	101.241
RCRA-2	18° 08' 24.27608" N	65° 25' 08.22378" W	852034.287	113074.409	257.469
RCRA-3	18° 07' 34.53996" N	65° 25' 49.49817" W	848081.364	108035.829	153.937
RCRA-4	18° 06' 54.32223" N	65° 26' 15.46458" W	845599.081	103965.579	36.141
G224-1	18° 08' 45.38406" N	65° 25' 05.26389" W	852307.943	115205.067	279.783
G224-2	18° 08' 20.11205" N	65° 25' 18.45408" W	851050.030	112648.950	326.102
G224-3	18° 07' 44.60218" N	65° 25' 39.34349" W	849055.157	109056.129	347.453

APPENDIX B

Photographs of SWMU and AOC Sites



SWMU-1: Camp Garcia Landfill, Looking East



SWMU-1: Camp Garcia Landfill, Looking East



AOC-F: Rock Quarry, Looking West



**AOC-G: Pump Station and Chlorination Building
at Sewage Lagoons (Camp Garcia)
Small White Concrete Block Structure
Approx. 10 ft. x 10 ft.**



AOC-F: Rock Quarry, Looking Northwest



AOC-F: Rock Quarry, Looking North



AOC-A: Diesel Fuel Fill Pipe Area (Observation Post 1)



AOC-F: Rock Quarry, Looking Northeast



SWMU-12: Solid Waste Collection Unit Area



SWMU-12: Solid Waste Collection Unit Area



SWMU-10: Sewage Treatment Lagoons (Camp Garcia)



SWMU-12: Solid Waste Collection Unit Area



**SWMU-6/7: Waste Oil and Paint Accumulation Areas
Outside Building 303 and Seabees Area**



SWMU-8: Waste Oil and Paint Accumulation Area (Inner Range)



**SWMU-6/7: Waste Oil and Paint Accumulation Areas
Outside Building 303 and Seabees Area, Looking North**



**SWMU-6/7: Waste Oil and Paint Accumulation Areas
Outside Building 303 and Seabees Area, Looking East**



**SWMU-6/7: Waste Oil and Paint Accumulation Areas
Outside Building 303 and Seabees Area, Looking North**



**SWMU-6/7: Waste Oil and Paint Accumulation Areas
Outside Building 303 and Seabees Area, Looking East**



**SWMU-4: Waste Areas of Building 303 (Camp Garcia)
Spent Battery Accumulation Area?
Corrosive Materials Storage Building**



SWMU-5: Spent Battery Accumulation Area (Inner Range)



SWMU-4: Waste Areas of Building 303 (Camp Garcia)
Flammable Storage Shed, North Side of Building 303



SWMU-4: Waste Areas of Building 303 (Camp Garcia)
Looking North Through Building 303



SWMU-2: Fuels Off-loading Site, Looking Northeast



**SWMU-4: Waste Areas of Building 303 (Camp Garcia)
Catch Basin for Hydraulic Oil**



SWMU-2: Fuels Off-loading Site, Former Tank Area



**SWMU-2: Fuels Off-loading Site, Looking North
Concrete Ramps or Fuel Pipe Line**



**AOC-G: Pump Station and Chlorination Building
at Sewage Lagoons (Camp Garcia)
Structure Adjacent to Building**



**AOC-G: Pump Station and Chlorination Building
at Sewage Lagoons (Camp Garcia)**